

**Amendments to the Specification:**

Please replace the paragraph beginning on page 5, line 21, with the following rewritten paragraph:

The head according to the invention is made up of the body 7 in several parts, of which the upper part 7a, in the form of a sleeve, is fixed to the lower end of the quill 2. ~~Its~~<sup>A</sup> bell-shaped part 7b of the body 7 contains a roller bearing 8 guided in terms of rotation to an intermediate axial shaft 9 which is connected in terms of rotation by a transverse key 10 to the spindle 6. The body also comprises a lower part 7c, in the form of a casing, and is continued by a sleeve 7d containing a ball bearing 12 used to guide the rotation of a cover 13 connected in terms of rotation to ~~a continuation-an extension shaft~~ 14 of the intermediate axial shaft 9. In this embodiment, the continuation-extension shaft 14 comprises a bore 14a for accommodating and positioning a pilot rod 15.

Please replace the paragraph beginning on page 5, line 35, with the following rewritten paragraph:

The various elements of the body 7 are connected to one another by screws, of the type depicted as 45. figure 2 shows that the cover 13 is designed to guide, in radial translation, a carriage 16 equipped with faces 17 for positioning and securing a tool holder 50 (Figure 1). This carriage is also secured to a rack 18 which meshes with a drive pinion 19 which is mounted so that it can rotate freely about the continuation-extension shaft 14 of the intermediate axial shaft 9.

Please replace the paragraph beginning on page 6, line 5, with the following rewritten paragraph:

The rotational movement of the spindle 6 is normally transmitted to the tool via the intermediate axial shaft 9, by the extension shaft 14 and by the cover 13, while rotational movement to the drive pinion 19 causing the carriage 16 to move radially is transmitted by a

mechanism which will first of all be described with reference to Figure 3. this mechanism is made up of two epicyclic gear trains, arranged in cascade, namely a first train I and a second train II.

Please replace the paragraph beginning on page 6, line 14, with the following rewritten paragraph:

The train I comprises a cage 20, the crown wheel 22 of which meshes with a driving pinion 23 fitted onto the end of the shaft 24a of an electric motor 24. the body of this electric motor is fixed to the part 7b of the body of the head that is to be bored. This motor is advantageously of the brushless type, that is to say synchronous with a permanent-magnet rotor. It is equipped with a built-in encoder which is connected by circuits 24b to the command and control unit 25 also controlling the electric motor 11 which drives the rotation of the spindle 6 and the motor 21 which moves the quill 2. The cage 20 carries at least one set of stepped planet pinions, 26 and 27 respectively, held fast in terms of rotation on a common shaft 28. the upper pinion 27 meshes with a set of teeth 29 formed at the end of the intermediate axial shaft 9, while the lower planet pinion 26 meshes with an output sun gear.

Please replace the paragraph beginning on page 6, line 31, with the following rewritten paragraph:

Figure 1 shows the cage 20 guided in rotation by roller bearings 32, 33 interposed between ~~it~~the cage 20 and, respectively, the intermediate axial shaft 9 and an extension of the output sun gear 30, while ends of the shaft 28 carrying the two planet pinions 26 and 27 are mounted so that they are free to rotate in needle bearings 34.

Please replace the paragraph beginning on page 7, line 1, with the following rewritten paragraph:

Likewise, the output sun gear 30 is guided in rotation by needle bearings 35 interposed between ~~it~~the output sun gear 30 and the intermediate axial shaft 9.